

**Brief Report** 

Not peer-reviewed version

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Posted Date: 5 December 2023

doi: 10.20944/preprints202312.0126.v1

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**Brief Report** 

# Organic Growth Theory for Global Sustainable Competitiveness and COVID-19 Sensitivity Analysis

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**Abstract:** This paper evaluates the global sustainable competitiveness of three blocks of power (US, China and EU) based on OGT (Organic Growth Theory) structure. In addition, a sensitivity analysis of COVID-19 on three measures of global sustainable competitiveness, economy, environment and social is also presented. OGT is a well-thought-through and standard framework for evaluation of any type of organization in their pathway to experience truly sustainable growth. GDP (Gross Domestic Product) is used as an economic measure; total carbon emissions equivalent is used as an environmental measure and HMI (Human Development Index) as a social measure. It is concluded that the pandemic has paused the evolution of countries to be truly world centric countries. However, the recovery plans seem to be highly aligned with the OGT scores and it is expected that the scores to improve dramatically.

Keywords: sustainability; sustainable development goals; organic growth theory

# 1. Introduction and paper structure

Organic Growth Theory was first introduced for corporates in [1], where numerous engagement and inputs were received from different stakeholders in sustainability community around the world. The concept was first officially published open-source and contributed to the development of sustainable businesses.

The purpose of OGT (Organic Growth Theory) research is to define an incremental approach to grow and generate revenue without compromise the capacity of forthcoming generations to satisfy their needs [2] [3] [4]. The theory was further tailored focusing on corporate world. In this paper, the focus is on countries and the global economy. This article is organized as follows:

- 1. The background and a theoretical/scientific justification for OGT is described in Section 2.
- 2. Section 3 is assigned to literature review and data collection approach.
- 3. In section 4, more information about the Organic Growth Theory is presented.
- 4. The adaptation of Organic Growth Theory for Global Sustainable Competitiveness is presented in section 5.
- 5. Results and future research direction are presented in section 6.

## 2. Background

As announced by United Nations alongside world leaders on the 1st of January 2016, Sustainable Development goals construct a vision and pathway for a global, sustainable future. The 17 goals point to an ambitious agenda for humanity by aiming to eradicate hunger, and poverty for all human beings, create efficient and sustainable industrial structures and neutralize the effects of climate change and maintain a habitable and healthy planet [5]. 2030 UN Agenda identifies "leaving no one behind" as a core value and demands each country to take action and collaborate towards a collective transformation of human civilization. Therefore, no matter their scale and developmental stage, all countries should join their efforts to achieve the Sustainable Development Goals accurately and on time.

In alignment with this direction, corporations worldwide are now also upgrading their definitions of value by incorporating sustainability into their decision-making processes [6] [7]. Top management and governmental support are among the most important factors that enable the transformation of industries towards a sustainable and circular direction [8]. Governmental organizations can facilitate the transformation towards sustainability by providing incentives and funds for industrial organizations by assisting the change and creating a collaborative atmosphere [9].

Quantifying sustainability is a vital step toward sustainability transformations since it enables sustainability measurement and the setting of specific targets [6]. The most appropriate indicators and indices for the assessment of sustainability in many domains have been investigated and modeled since what can't be measured, cannot be managed and improved [10]. Decision-makers and policymakers can use sustainability assessment as a tool to determine what measures to take or not take in an effort to make civilization more sustainable [11].

Therefore, sustainability performance measurement has become an active research field with noticeable contributions from various scholars [12]. By measuring the sustainability performance of countries, it will be possible to understand the strengths and weaknesses of each country, track their performance levels in time, benchmark with other countries and guide their policy making process [13] [14] [15].

# 3. Literature review and data collection approach

Sustainability measurement is a vital but challenging task. One of the main challenges of sustainability measurement in the country level is the uncertainty in data which may arise from ambiguous or incomplete information, data series uncertainties or uncertainty about the future [16]. Therefore, in order to fully represent the true nature of the problem, models used in sustainability assessment should capture the multiple qualitative, quantitative and uncertain characteristics of the parameters [11].

The first set of indices were proposed by United Nations in 1995, under the name Human Development Index (HDI). The Environmental Performance Index (EPI) and Ecological Footprint (EF) are also among the most widely recognized performance indicators. Among the methodologies used for sustainability performance assessment, one can list multi-criteria decision analysis methods, Data Envelopment analysis (DEA), Life Cycle analysis (LCA), comprehensive evaluation, system dynamics and Fuzzy-set theory [11], [16].

Despite the efforts by the researchers and UN, the term sustainability is still vague and difficult to quantify [17] [18]. Moreover, different conceptualization of sustainability and quantification methods lead to different even controversial results [10], [16], [19].

Sustainability performance measurement in the macro level (city, country) can be thought of as a classic Multiple Criteria Decision Aiding (MCDA) [20] problem due to sustainability being assessed by a number of indicators [19] [21]. Since the start of 21st century, numerous intergovernmental plans and private programs have been executed to encourage global sustainable development across the world. These include New Urban Agenda by UN-Habitat (2016), Sustainable Development Goals by United Nations (2016), and Istanbul Declaration by North Atlantic Treaty Organization (NATO) (2004) and the HK2030 Study by Hong Kong Planning Department (2007). OECD has delivered multiple directions and tactics to evaluate sustainable development (OECD, 2010; OECD, 2020; OECD, 2021) [22].

Index studies are at the core of attention to ensure sustainable development to be truly executed. To give few examples, Sustainable Development Goals (SDG) Index [23] [24], The Global Innovation Index [25], Environmental Performance Index [26], Genuine Progress Indicator [26], Sustainable Society Index [27], Legatum Prosperity Index [28], are among indices which published by different organizations today assist maintaining the concept of sustainability alive while addressing and measuring multiple dimensions of sustainable development [29]. To attain sustainable and permanent development, CE (Circular Economy) is a requirement since it improves resource efficiency and eliminates material dependability [22].

2

Generating energy in sustainable manner has come with three requirements to be part of sustainable development [30] [31] [32] [33]:

- 1. The source of energy is not significantly exhausted by continuous use.
- 2. Generation of emission of pollutants or other hazards to human or ecological and climate systems is not significant.
- 3. Perpetuation of significant social injustices is not compromised.

Prior to 2005 [6], Chinese economic growth was not sustainable, owing to environmental problems and large income gaps. Since then, however, there has been a change after the Chinese government announced some goals for sustainable development in its 11th five-year plan (2006–2010); the plan included proposals for environmental pollution regulations and reducing the social income gap [34]. It seems that the Chinese government's policies for sustainability were effective in in-creasing the sustainability performance of the country. China emphasized more on economic performance than environmental and social performance. Social performance, representing economic equality, has the lowest value, suggesting that the country's inefficiency of sustainability is mainly because of social inefficiency.

In [35], a calculation and comparison method of sustainability performances of European countries is presented. Top four European countries (Sweden, Denmark, Finland and Austria) have superior indexes of sustainability and Sweden is the top state from both the environmental and energy generation assessments [36], [37].

#### 4. About Organic Growth Theory

A sharp prospect and vision for 'impact' and a strategy that supports such a vision is the basic element of a forward-thinking way of advancing corporate growth. In such perspective, significance, quantifiability and scalability are the leading theories. Equally, impact-driven growth involves corporates to put in place effective clarity instruments to leverage the gains of this progressive approach [38] [12]. OGT has three main assumptions:

- 1. Growth is important but strictly considering the positive impact.
- 2. Maslow Pyramid of Needs and incremental process based on ecological thinking [2] is guiding the growth.
- 3. Improving internal efficiency and impact is at focus.

In the OGT structure, Foundation Corporates (Founcorps for shortness) is described as the next generation of corporates. Founcorps aim on getting profound motives and impactful visions to a corporate growth. As stated above, the proposed OGT structure is based on two known theories: Maslow's hierarchy of needs and the concept of ecological thinking [2] [38]. The former is an interactive purpose theory in psychology comprising a five-tier model of human requirements, often depicted as hierarchical levels within a pyramid, as illustrated in Figure 1.

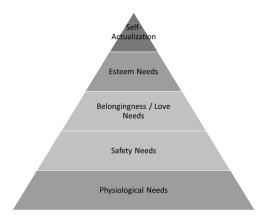


Figure 1. Maslow's hierarchy of needs.

Individuals cannot serve more advanced needs unless, the needs in the bottom of the hierarchy are fulfilled. From the bottom of the hierarchy upwards, the needs are physiological, safety, love and belonging, esteem, and self-actualization. These stages have been transformed to the corporate, as shown in Table 1.

Maslow Pyramid	Personal	Corporate
1 Physiological Needs	Oxygen, Food, Water, Sleep	One Employee, Product / Service, Business Strategy, Small Funds, Stationery, Phone, Computer, Internet
2 Safety Needs	Protection, Security, Order, Law, Limit, Stability	Stream of Revenue, Multiple Employees, Steady Retention Rate, Office Space
Belongingness / Love Needs	Family, Affection, Relationships	Employee Relations, Investors, Clients
4 Esteem Needs	Achievement, Status, Responsibility, Reputation	Brand Recognition, Partnerships, IPO, Press Coverage
5 Self-Actualization	Personal Growth, Fulfillment	Corporate Citizenship, Corporate Social Responsibility

Table 1. Correlation of Maslow Pyramid for individual and corporate.

For corporates, it starts from basic needs for strategy and funds before leading to sustainability, corporate citizenship and corporate social responsibility (CSR). An interesting example illustrating this point is the case of Aramco [3], the largest oil company in the world, since their entire CSR focus is on corporate citizenship. While all the CSR activities are appreciated and invaluable, it is important to evolve corporate structures to grow in a responsible way. The growth path is described in OGT (Organic Growth Theory) and the goal is that the corporates should evolve to be responsible entities called Founcorps (Foundation Corporates).

In the OGT framework, the five steps depicted in Table 1 need to be repeated in three different phases until a company can become a truly Founcorp. These three phases are based on the concept of ecological thinking [2], and they are illustrated in Figure 2.

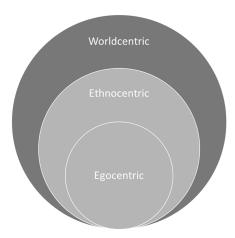
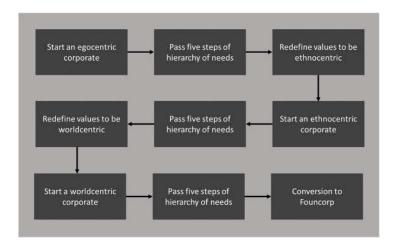


Figure 2. Representation of the three phases within ecological thinking [2].

Ecological thinking is a natural way for responsible corporates to work and grow. It allows the concerned corporates to be part of the natural rebalancing process in the lives of people and nature [4]. It also enables corporate concerns to serve the entire interdependent web of nature and life. Furthermore, it makes the corporate concerns valuable to the people and nature. To summarize, the nine steps required to become a Founcorp are shown in Figure 3.



**Figure 3.** Summary of the 9 steps required for a corporate to become a Founcorp, in the proposed OGT framework.

As shown in Figure 3, it is necessary to take the 5 steps of Maslow's hierarchy of needs to grow. However, this is not enough. Those 5 steps need to be taken in line with the 3 phases of ecological thinking [2]. These steps and phases constitute what we define as a Founcorp, which is world centric with meaningful reasons and impactful visions for growth.

#### 5. Organic Growth Theory for Global Sustainable Competitiveness

A PEST analysis (Political, Economic, Socio-cultural and Technological) of the COVID-19 effects on our societies was made. PEST describes a framework of macro-environmental factors used in the environmental inspecting part of strategic management. It provides an indication of the several macro-environmental factors to be taken into consideration to study the effect of an external factor (in this case corona visor pandemic). It is a strategic tool for understanding market growth or drop, overall status, potential and trend for operations. May of my predications have come true as described in the following figure:

	Shock Period	Re-thinking Period	Change Period
Political	More trust to the existing governments. Rise of nationalism.	How the left-and-right systems is not working. Gradual rise of new political movement based on sustainability.	Evolution to a fully new political movement (focus on sustainability
Economic	Jobs are lost and market will go down.	Even bigger recession and rise of jobs focusing on new sustainability measures.	Evolution to more distribution of wealth and sustainability measures and related businesses.
Social	People get together to solve the problem. Local unity	Skeptics toward current political and economic systems	Movement toward more sustainability
Technological	Large investment in health related technologies.	Getting to focus on more sustainable solutions with its related technologies.	Large investment and emergence of technologies with sustainability focus.

Figure 4. PEST analysis for COVID-19 effects on our societies.

We are now in re-thinking phase, and we can see that lots of movements are toward sustainability. The ppoliticians used to see sustainability additional overhead cost for risk mitigation and making 'compensating' positive impact. The world has reached a turning point of instability, mainly due to climate change but also by appearance of COVID-19, so that more investment on non-sustainable investment alternatives has created existential threat to all of us. On the other hand, a parity of the technology cost for sustainable investment has been reached in comparison with non-sustainable alternatives. Therefore, our proposed Organic Grow Theory [1] introduces a step-by-step

approach so that the world's economy can grow and create more jobs deprived of compromising the capacity of future generations to meet their needs. Wortry (World Country as it will be described in the next section) is our proposed way of governing a country to address the above challenges and it would be needed to direct countries to evolve and being responsible for our planet.

## 5.1. Organic Growth Theory for countries

Therefore, our proposed Organic Grow Theory [1] introduces a step-by-step approach so that the world's economy can grow and create more jobs without compromising the ability of future generations to meet their needs. Wortry (World Country) is our proposed way of governing a country to address the above challenges and it would be needed to direct countries to evolve and being responsible for our planet. This is shown graphically in Figure 5.

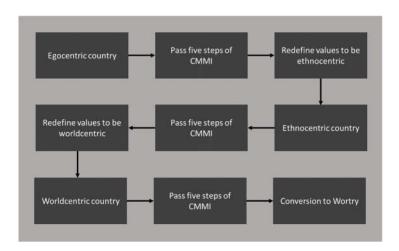


Figure 5. Organic Growth Theory for countries.

There is a different between original OGT and the one used in this paper. The figure above introduces OGT 2.0 in which the hierarchy of needs is replaced by Capability Maturity Model Integration (CMMI) [39] [28] as it will be described more in the next sections.

# 5.2. Capability Maturity Model Integration

Capability Maturity Model Integration (CMMI) is a process level improvement tool. In CMMI, a maturity level is a well-defined evolutionary plateau toward achieving a mature process. The five levels in CMMI are shown in the following figure:



Figure 6. Capability Maturity Model Integration (CMMI).

Each country of block of power can be in any of those three levels (egocentric, ethnocentric or world centric) and each level the country can be ranked in any of the five steps in CMMI. Therefore, there will be in total 15 levels in which 1 indicates an egocentric country with initial maturity and 15 is a world centric country with optimizing maturity.

#### 5.3. Sustainable Development Goals

In this paper, SDGs (Sustainable Development Goals) are used as a tool to investigate how three major blocks of economy (USA, EU and China) have evolved to be a Wortry or devolved and how

COVID-19 has influenced such change [2]. The SDGs are grouped to Economy, Society and Environment [3] [40]in the following figure:



Figure 7. Grouping of sustainable development goals.

This grouping has been used in the modelling and the analysis made for the purpose of this research [41].

#### 6. Results and future research direction

Those three areas are modeled with Marco economic measures for three major blocks of power (US, China and EU). These three blocks account for more than 60% of world GDP and GDP PPP is more than 10 000 USD.

	GDP 2020 (BUSD)	% of world economy	GDP PPP (USD)	Population (millions)	% GDP change from 2019
US	20 936	25%	63 534	320	-2.3%
EU	15 192	18%	33 927	448	-2.8%
China	14 722	17%	10 500	1 400	+3.1%

**Table 2.** Three group of power for this study.

As it can be seen, China is the only economy that its GDP has increased during pandemic. The primary results from our model are shown in the following table. The red color indicates egocentric country (score 1-5), yellow indicates ethnocentric (score 6-10) and green is world centric (score 11-15).

# 6.1. COVID-19 Sensitivity Analysis

A sensitivity analysis on the effects of COVID-19 based on the developed model has been performed. The results of the sensitivity analysis are shown in the table below.

**Table 3.** COVID-19 Sensitivity Analysis.

	Before Pandemic December 2019			August 2021		Pandemic	
	Economy	Society	Environment	Economy	Society	Environment	sensitivity
US	12	11	10	11	9	10	-9,09%
EU	12	12	12	11	11	13	-2,78%
China	10	9	11	11	9	11	3,33%

As it can be also seen, China is the only country which has increased its OGT scores to be a Wortry while the US and EU have seen a reduction in their scores. The average of all shows 3,03% reduction in the OGT scores.

To conclude, it is clear that the pandemic has paused the evolution of countries to be truly world centric countries. However, the recovery plans seem to be highly aligned with the OGT scores and it is expected that the scores by the end of 2022 to improve dramatically.

In the future, this research abd Organic Growth Theory will be exteded to the effects of other major events on global competiveness. These include war in the Ukraine or Irael-Palestine conflict.

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